

# GOLF CLUB HEAD

## BACKGROUND OF THE INVENTION

### 1. Field of the Invention

The present invention relates to a golf club head, and more particularly to a golf club head with an improved weight distribution.

### 2. Description of Related Art

For improving a golf club's performance, a golf club head should be made with a low gravity center. Therefore, the golf club head generally has a sole with a greater area than an upper surface for lowering the center of gravity.

As illustrated in Figs. 4 and 5, a conventional golf club head (3), as disclosed in USP 5,465,970, has an upper surface (30) and a sole (41). The upper surface (30) has an ankle (31), a toe (32) and a rear wall (33) between the ankle (31) and the toe (32). A strike surface (40) is integrally formed on the sole (41) and extends from the sole (41) to the upper surface (30).

In this structure, the rear wall (33) is angled upwards and inwards from an outer periphery of the sole (41), so the sole (41) has a greater area than the upper surface (30), and the center of the gravity of the golf club head (3) is low. However, the extruded lower part of the toe (32) increases the weight at this side, so the center of the gravity of the head (3) is near the strike surface (40) and a sweet area of the head (3) is insufficient to enable a golfer to attain maximum accuracy and distance. Therefore, it is very difficult for a player to control the golf club to strike in the sweet area.

Therefore, the invention provides a golf club head to mitigate or obviate the aforementioned problems.

1 SUMMARY OF THE INVENTION

2 The main objective of the present invention is to provide a golf club  
3 head which has a low center of gravity near a rear portion of the head.

4 Other objectives, advantages and novel features of the invention will  
5 become more apparent from the following detailed description when taken in  
6 conjunction with the accompanying drawings.

7 BRIEF DESCRIPTION OF THE DRAWINGS

8 Fig. 1 is a front view of a golf club head in accordance with the present  
9 invention;

10 Fig. 2 is a top view of the golf club head in accordance with the present  
11 invention;

12 Fig. 3 is a side cross sectional view of the golf club head in accordance  
13 with the present invention;

14 Fig. 4 is a side view, partly in section, of a conventional golf club head;  
15 and

16 Fig. 5 is a front view, partly in section, of the conventional golf club  
17 head.

18 DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

19 With reference to Figs. 1-3, a golf club head (1) in accordance with the  
20 present invention has an upper surface (10) and a sole (21). An ankle (11) is  
21 formed at a first side of the upper surface (10) and a toe (12) is formed at a  
22 second side of the upper surface (10) opposed to the first side. A rear wall (13) is  
23 formed between the ankle (11) and the toe (12), and extends from the upper  
24 surface (10) to connect with a rear side of the sole (21). A recess (14) is defined

1 in the rear wall (13). A strike surface (20), opposed to the rear wall (13), is  
2 integrally formed on the sole (21) and extends from the sole (21) to connect with  
3 a front side of the upper surface (10).

4 According to the present invention, the rear side of the recess (14)  
5 corresponding to the recess (14) has a length larger than the rear wall (13), and  
6 the toe (12) has a substantially upright and slightly curved outer periphery.  
7 Therefore, the sole (21) has a greater area than the upper surface (10), and the  
8 golf club head (1) has a low center of gravity. Moreover, the toe (12) has a  
9 substantially upright and slightly curved outer periphery, whereby the center of  
10 gravity of the golf club head (1) is near the rear wall (13), so the rear portion of  
11 the golf club head is heavier than the front portion of the golf club head.  
12 Accordingly, with a golf club manufactured to the configuration of the present  
13 invention a golf player can control the golf club to strike a ball more easily.

14 It is to be understood, however, that even though numerous  
15 characteristics and advantages of the present invention have been set forth in the  
16 foregoing description, together with details of the structure and function of the  
17 invention, the disclosure is illustrative only, and changes may be made in detail,  
18 especially in matters of shape, size, and arrangement of parts within the  
19 principles of the invention to the full extent indicated by the broad general  
20 meaning of the terms in which the appended claims are expressed.